

iCOOL

INVERTER SCROLL CONDENSING UNITS



ENERGY SAVING

Product description:

I-cool is a new generation of multi refrigerant inverter driven low noise condensing unit.

These units are particularly suitable for small and medium sites such as convenience stores, petrol forecourts, cold rooms and many other applications, targeting customers who care about flexibility, reliability and energy savings.

Product features:

- ▶ Bonfiglioli electronic controller with inverter drive
- ▶ HP/LP Pressure switch
- ▶ LP Safety switch
- ▶ Suction accumulator (Except iCool 4.5 & 7)
- ▶ Liquid receiver
- ▶ Liquid line drier and side glass
- ▶ Fan speed control
- ▶ Oil separator (One per compressor)

Key points:

- ▶ Capacity modulation with inverter technology
- ▶ Reduced starting current
- ▶ Smooth inverter start
- ▶ Fully factory tested

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INVERTER DRIVEN LOW NOISE HOUSED CONDENSING UNIT

R449A/R449A Medium temperature (Also suitable R404A) - Cooling capacity at Min and Max Hz

Code	Model	-15	-10	-5	0	5	10
ISU005	iCool 4.5 MHP	638-3,871	771-4,666	921-5,670	1,084-6,799	1,263-8,042	-
ISU008	iCool 7 MHP	960-6,030	1176-7,216	1,414-8,453	1,665-9,690	1,927-10,895	-
ISU010	iCool 10 MHP	3,378-8,088	4,157-9,791	5,160-11,826	6,403-14,237	7,891-17,056	9,615-20,302
ISU015	iCool 12MHP	2,436-9,831	3,129-11,868	4,015-14,297	5,131-17,171	6,511-20,533	8,182-24,413
ISU020	iCool 17D MHP	3,570-13,240	4,358-16,255	5,393-19,788	6,698-23,860	8,289-28,482	8,289-33,652
ISU030	iCool 21D MHP	3,570-15,237	4,358-18,712	5,393-22,737	6,698-27,315	8,289-32,440	10,170-38,100
ISU040	iCool 26D MHP	4,398-19,759	5,477-24,241	6,777-29,301	8,325-34,889	10,141-41,003	12,239-47,584
ISU050	iCool 29D MHP	4,398-22,887	5,477-27,511	6,777-32,797	8,325-38,779	10,141-45,486	12,239-52,950
ISU055	iCool 39D MHP	5,012-32,882	6,486-39,693	8,440-47,773	10,769-57,247	13,369-68,187	16,147-80,619

R134a Medium temperature (Also suitable for R448A, R449A and R513A) - Cooling capacity at Min and Max Hz

Code	Model	-15	-10	-5	0	5	10
ISU005	iCool 4.5 MHP	-	480-3,789	570-4,436	665-5,106	769-5,841	890-6,680
ISU008	iCool 7 MHP	-	831-5,196	990-6,124	1,159-7,095	1,347-8,160	1,564-9,371
ISU010	iCool 10 MHP	1,636-5,006	2,066-6,157	2,607-7,551	3,296-9,246	4,163-11,290	5,240-13,721
ISU020	iCool 17 MHP	1,747-9,011	2,209-10,932	2,792-13,239	3,535-16,017	4,475-19,342	5,647-23,275
ISU030	iCool 21 MHP	1,747-10,909	2,209-13,163	2,792-15,853	3,535-17,690	4,475-22,899	5,647-27,395
ISU040	iCool 26 MHP	2,801-14,617	3,433-17,142	4,178-20,547	5,102-22,815	6,246-29,399	7,643-35,048
ISU050	iCool 29 MHP	5,146-16,172	6,289-18,955	7,683-22,683	9,375-25,135	11,410-32,324	13,825-38,466
ISU055	iCool 39D MHP	3,463-23,479	4,371-28,698	5,493-34,817	6,902-41,955	8,672-50,202	10,872-59,638

R449A Low temperature (Also suitable for R448A and R404A) - Cooling capacity at Min and Max Hz

Code	Model	-33	-30	-25	-20	-15	-10
ISU095	iCool 3 MP	439-2,833	543-3,472	668-4,194	814-4,984	981-5,826	-
ISU100	iCool 10 MP	1,775-7,086	2,072-8,082	2,699-10,062	3,533-12,049	4,627-15,080	6,036-18,026
ISU110	iCool 17 MP	1,843-11,322	2,151-12,809	2,801-15,694	4,059-19,075	4,803-22,929	6,226-27,232

Capacity data at 32 °C ambient. *SAPTXiSs-3MP duty is actually -35°C evap, all the other units are at -33°C evap.

Technical Data

Model	Dimensions	Weight	Noise level dB(A) @ 10m		Connections		Receiver
	W x D x H		Kg	Nominal	Maximum	Suction	
iCool 4.5 MHP	1106 x 466 x 560	118	39	42	5/8"	3/8"	3.9
iCool 7 MHP	1140 x 439 x 760	135	39	42	3/4"	1/2"	7.1
iCool 10 MHP	1289 x 439 x 963	176	39	45	7/8"	1/2"	10
iCool 12 MHP	1420 x 434 x 963	196	41	48	7/8"	1/2"	10
iCool 17D MHP	1521 x 475 x 1493	310	44	52	1.1/8"	5/8"	15
iCool 21D MHP	1521 x 475 x 1493	311	44	52	1.1/8"	5/8"	15
iCool 26D MHP	1528 x 879 x 1488	400	44	52	1.3/8"	7/8"	15
iCool 29D MHP	1528 x 879 x 1488	430	44	52	1.3/8"	7/8"	15
iCool 39D MHP	1670 x 1090 x 1695	520	43	51	1.5/8"	7/8"	30
iCool 3 MP	1106 x 466 x 560	125	37	41	3/4"	1/2"	3.9
iCOOL 10 MP	1322 x 475 x 1493	286	44	52	1.1/8"	5/8"	15
iCool 17D MP	1528 x 879 x 1488	460	44	52	1.3/8"	7/8"	15

Electrical Data

Model	Power Supply	MRA* (A)	LRA** (A)	Compressor	
	(V/Ph/Hz)			INVERTER	ON/OFF
iCool 4.5 MHP	400/3/50	27	-	C-7RVN113L0A	-
iCool 7 MHP	400/3/50	27	-	C-7RVN153L0A	-
iCool 10MHP	400/3/50	16	-	C-SBS180H00B	-
iCool 12 MHP	400/3/50	16	-	C-SBS180H00B	-
iCool 17D MHP	400/3/50	27.1	48	C-SBS180H00B	C-SBN303H8G
iCool 21D MHP	400/3/50	27	63	C-SBS180H00B	C-SBN453H8G
iCool 26D MHP	400/3/50	29.8	66	C-SBVN373LOB	C-SBN453H8G
iCool 29D MHP	400/3/50	31.3	66	C-SBVN373LOB	C-SCN603H8T
iCool 39D MHP	400/3/50	57	96	ACC149NA04	C-SCN753H8T
iCool 3 MP	400/3/50	27	-	C-7RVN153L0A	-
iCool 10 MP	400/3/50	24.6	-	C-SCVN603L0J	-
iCool 17D MP	400/3/50	41.9	80	C-SCVN603L0J	C-SCN603L8H

MRA*
- Maximum running amps
LRA**
- Locked rotor amps

Ambient 32 °C, suction gas of 20 °C, evaporating at -10 °C (MHP or -35 °C MP)

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